

Reference 2

Partial Translation

JP Pat. Application Disclosure No. 49-057048 - 3 June 1974

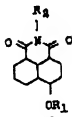
Application No. 47-100113 - 4 October 1972

Applicant: Sumitomo Kagaku Kogyo K.K., Osaka, JP

Title: Method for the optical brightening of organic polymeric material

[Claim] (single claim)

A method for the optical brightening of an organic polymeric material, characterized by using a fluorescent phthalimide derivative according to the general formula:



[wherein R<sub>1</sub> is an alkyl group,  $\begin{array}{c} \text{OR}_2\text{CH}_2\text{R}_3 \\ | \\ \text{O}-\text{X} \end{array}$  group {R<sub>3</sub> is a hydrogen atom, substituted or unsubstituted alkyl or phenyl group, or aralkyl group, alkenyl group; X is hydrogen atom, aralkyl group, -COR<sub>4</sub>, -COOR<sub>5</sub> or -CONHR<sub>6</sub> (R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub> are substituted or unsubstituted alkyl or phenyl group or alkenyl group)}, or  $\begin{array}{c} \text{OR}_2 \\ | \\ \text{O}-\text{X} \end{array}$  group (X has the same meaning as given

above);  $R_2$  is alkyl group, cycloalkyl group,  $\begin{array}{c} -CH_2CH_2R_3 \\ | \\ O-X \end{array}$  group ( $R_3$ , X have the meanings given above) or  $\begin{array}{c} -CH \\ | \\ CH_2O-X \end{array}$  group (X has the meaning given above); where at least one of  $R_1$  and  $R_2$  is a  $\begin{array}{c} -CH_2CH_2R_3 \\ | \\ O-X \end{array}$  group or  $\begin{array}{c} -CH \\ | \\ CH_2O-X \end{array}$  group.]